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tion upon every phase of questions relating to soil fertility and the science of increasing the productivity of the land while, at the same time, drawing heavily upon its resources. The author is Professor of Agronomy in the University of Illinois.

**Fungous Diseases of Plants.** With Chapters on Physiology, Culture Methods and Technique. By Benjamin Minge Duggar. xii and 508 pp., 240 illustrations and index. Ginn & Co., Boston, 1909. \$2.

This important work is the first book on the subject of American origin. The author is Professor of Plant Physiology in Cornell University. His book is designed for reference use and as a text in the higher schools. It has already been adopted in a considerable number of these institutions. Each disease is discussed as to its occurrence, the nature of the injuries induced, the structure, life history and cultural relations of the causal fungus and practical methods for prevention or control.

**Meteorologie.** Von. Professor Dr. Wilh. Trabert. Small 8vo. (Sammlung Götschen, No. 54.) Dritte verbesserte Auflage. G. J. Götschen, Leipzig, 1909. 80 Pf.

We are glad to welcome the third edition of Trabert's excellent little volume. The first edition appeared in 1896; the second in 1901. The author has revised the text in order to keep pace with the rapid advance in the science of meteorology, and we note particularly the sections which deal with the vertical decrease of temperature, and with atmospheric electricity. It is safe to say that the careful student of the book will gain a very good idea of the general principles of the science. We commend the book to American readers.

R. DEC. W.

**Life of Admiral Sir Leopold McClintock.** By an Old Messmate, Sir Clements Markham. viii and 370 pp., portraits, maps, illustrations, appendices and index. John Murray, London, 1909. 15s.

The story of one of the great heroes of British exploration, written by the geographer and Arctic authority, who, probably, was best qualified to render this service to McClintock's memory. The man whose life is here told had natural gifts that enabled him, as an explorer, to strike out new paths and accomplish results by ways of his own devising. The world at large has known him chiefly for his voyage on the *Fox* and his discovery of the fate of Sir John Franklin. In this volume we have not only the history of his achievements but gain also an insight into the facts of his development and the training that helped to fit him for a conspicuous career.

**Causal Geology.** By E. H. L. Schwarz, A.R.C.S., F.G.S., Professor of Geology at the Rhodes University College, Grahamstown, South Africa. vii and 248 pp., 34 illustrations or figures, and index. Blackie & Son, Limited, London, and D. Van Nostrand Company, New York, 1910. \$2.50.

In a series of uncommonly interesting chapters, Professor Schwarz develops his views in regard to some of the most important geological problems. We are invited at the outset to consider five postulates: 1, The rocks on the surface of the earth are in constant motion; 2, The force of cohesion in rocks is insufficient to keep them rigid when in large masses; 3, The area of the surface